

1 Identification

- **Product identifier**
- **Product Name:** Base/Neutrals Mix 1
- **Part Number:** ECS-N-030
- **Application of the substance / the mixture** Certified Reference Material
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SPEX CertiPrep, LLC.
203 Norcross Ave, Metuchen,
NJ 08840 USA
- **Information department:** product safety department
- **Emergency telephone number:**
Emergency Phone Number (24 hours)
CHEMTREC (800-424-9300)
Outside US: 703-527-3887

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 1B H350 May cause cancer.

Repr. 1A H360 May damage fertility or the unborn child.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

dichloromethane

nitrobenzene

bis(2-chloroethyl) ether

dimethylnitrosoamine

4-Bromodiphenyl ether

- **Hazard statements**

H225 Highly flammable liquid and vapor.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

- **Precautionary statements**

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

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Avoid breathing dust/fume/gas/mist/vapors/spray

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**· **NFPA ratings (scale 0 - 4)**· **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = *1
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

· **Other hazards**· **Results of PBT and vPvB assessment**· **PBT:**

87-68-3	hexachlorobuta-1,3-diene
120-82-1	1,2,4-trichlorobenzene

· **vPvB:**

87-68-3	hexachlorobuta-1,3-diene
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3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Mixture of the substances listed below with nonhazardous additions.· **Dangerous components:**

75-09-2	dichloromethane	94.0%
106-46-7	1,4-dichlorobenzene	0.2%
121-14-2	2,4-dinitrotoluene	0.2%
606-20-2	2,6-dinitrotoluene	0.2%
101-55-3	4-Bromodiphenyl ether	0.2%
103-33-3	azobenzene	0.2%
111-44-4	bis(2-chloroethyl) ether	0.2%
117-81-7	bis(2-ethylhexyl) phthalate	0.2%
85-68-7	BBP	0.2%
86-74-8	carbazole	0.2%
84-74-2	dibutyl phthalate	0.2%
117-84-0	Di-n-octyl Phthalate	0.2%
118-74-1	hexachlorobenzene	0.2%
87-68-3	hexachlorobuta-1,3-diene	0.2%
67-72-1	hexachloroethane	0.2%
78-59-1	3,5,5-trimethylcyclohex-2-enone	0.2%
621-64-7	nitrosodipropylamine	0.2%
62-75-9	dimethylnitrosoamine	0.2%
98-95-3	nitrobenzene	0.2%
120-82-1	1,2,4-trichlorobenzene	0.2%

· **Chemical identification of the substance/preparation**

95-50-1	1,2-dichlorobenzene	0.2%
541-73-1	1,3-dichlorobenzene	0.2%
91-58-7	2-Chloronaphthalene	0.2%
7005-72-3	4-Chlorophenyl-phenyl ether	0.2%
111-91-1	bis(2-chloroethoxy)methane	0.2%
108-60-1	bis(2-chloro-1-methylethyl) ether	0.2%
84-66-2	diethyl phthalate	0.2%
131-11-3	dimethyl phthalate	0.2%

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77-47-4	hexachlorocyclopentadiene	0.2%
86-30-6	nitrosodiphenylamine	0.2%
110-86-1	PYRIDINE	0.2%

4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:**

Immediately call a doctor.

Do not give anything to eat or drink - Do not induce vomiting

- **Information for Doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:** CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **Special hazards arising from the substance or mixture** No further relevant information available.

- **Advice for firefighters**

- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

75-09-2	dichloromethane	200 ppm
95-50-1	1,2-dichlorobenzene	50 ppm
541-73-1	1,3-dichlorobenzene	6 ppm
106-46-7	1,4-dichlorobenzene	30 ppm
121-14-2	2,4-dinitrotoluene	0.6 mg/m ³
606-20-2	2,6-dinitrotoluene	0.6 mg/m ³
91-58-7	2-Chloronaphthalene	6.2 mg/m ³
101-55-3	4-Bromodiphenyl ether	0.33 mg/m ³
7005-72-3	4-Chlorophenyl-phenyl ether	1.5 mg/m ³
111-91-1	bis(2-chloroethoxy)methane	0.04 ppm
111-44-4	bis(2-chloroethyl) ether	10 ppm
108-60-1	bis(2-chloro-1-methylethyl) ether	0.15 ppm
117-81-7	bis(2-ethylhexyl) phthalate	10 mg/m ³
85-68-7	BBP	15 mg/m ³
86-74-8	carbazole	0.66 mg/m ³
84-74-2	dibutyl phthalate	15 mg/m ³

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117-84-0	Di-n-octyl Phthalate	41 mg/m ³
84-66-2	diethyl phthalate	15 mg/m ³
131-11-3	dimethyl phthalate	15 mg/m ³
118-74-1	hexachlorobenzene	0.006 mg/m ³
87-68-3	hexachlorobuta-1,3-diene	1 ppm
77-47-4	hexachlorocyclopentadiene	0.03 ppm
67-72-1	hexachloroethane	3 ppm
78-59-1	3,5,5-trimethylcyclohex-2-enone	12 ppm
621-64-7	nitrosodipropylamine	5.6 mg/m ³
62-75-9	dimethylnitrosoamine	0.082 mg/m ³
86-30-6	nitrosodiphenylamine	5.5 mg/m ³
98-95-3	nitrobenzene	3 ppm
110-86-1	PYRIDINE	3 ppm
120-82-1	1,2,4-trichlorobenzene	0.45 ppm

· PAC-2:

75-09-2	dichloromethane	560 ppm
95-50-1	1,2-dichlorobenzene	170 ppm
541-73-1	1,3-dichlorobenzene	66 ppm
106-46-7	1,4-dichlorobenzene	170 ppm
121-14-2	2,4-dinitrotoluene	12 mg/m ³
606-20-2	2,6-dinitrotoluene	47 mg/m ³
91-58-7	2-Chloronaphthalene	69 mg/m ³
101-55-3	4-Bromodiphenyl ether	3.6 mg/m ³
7005-72-3	4-Chlorophenyl-phenyl ether	35 mg/m ³
111-91-1	bis(2-chloroethoxy)methane	0.44 ppm
111-44-4	bis(2-chloroethyl) ether	25 ppm
108-60-1	bis(2-chloro-1-methylethyl) ether	1.6 ppm
117-81-7	bis(2-ethylhexyl) phthalate	1,000 mg/m ³
85-68-7	BBP	77 mg/m ³
86-74-8	carbazole	7.2 mg/m ³
84-74-2	dibutyl phthalate	1,600 mg/m ³
117-84-0	Di-n-octyl Phthalate	450 mg/m ³
84-66-2	diethyl phthalate	300 mg/m ³
131-11-3	dimethyl phthalate	1,600 mg/m ³
118-74-1	hexachlorobenzene	14 mg/m ³
87-68-3	hexachlorobuta-1,3-diene	3 ppm
77-47-4	hexachlorocyclopentadiene	0.55 ppm
67-72-1	hexachloroethane	36 ppm
78-59-1	3,5,5-trimethylcyclohex-2-enone	33 ppm
621-64-7	nitrosodipropylamine	62 mg/m ³
62-75-9	dimethylnitrosoamine	0.9 mg/m ³
86-30-6	nitrosodiphenylamine	60 mg/m ³
98-95-3	nitrobenzene	20 ppm
110-86-1	PYRIDINE	19 ppm
120-82-1	1,2,4-trichlorobenzene	5 ppm

· PAC-3:

75-09-2	dichloromethane	6,900 ppm
95-50-1	1,2-dichlorobenzene	1,000 ppm
541-73-1	1,3-dichlorobenzene	400 ppm
106-46-7	1,4-dichlorobenzene	1,000 ppm
121-14-2	2,4-dinitrotoluene	200 mg/m ³
606-20-2	2,6-dinitrotoluene	200 mg/m ³
91-58-7	2-Chloronaphthalene	410 mg/m ³
101-55-3	4-Bromodiphenyl ether	21 mg/m ³
7005-72-3	4-Chlorophenyl-phenyl ether	210 mg/m ³

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111-91-1	bis(2-chloroethoxy)methane	2.7 ppm
111-44-4	bis(2-chloroethyl) ether	250 ppm
108-60-1	bis(2-chloro-1-methylethyl) ether	22 ppm
117-81-7	bis(2-ethylhexyl) phthalate	6,100 mg/m ³
85-68-7	BBP	460 mg/m ³
86-74-8	carbazole	43 mg/m ³
84-74-2	dibutyl phthalate	9300* mg/m ³
117-84-0	Di-n-octyl Phthalate	11000* mg/m ³
84-66-2	diethyl phthalate	1,800 mg/m ³
131-11-3	dimethyl phthalate	9300* mg/m ³
118-74-1	hexachlorobenzene	91 mg/m ³
87-68-3	hexachlorobuta-1,3-diene	10 ppm
77-47-4	hexachlorocyclopentadiene	1 ppm
67-72-1	hexachloroethane	300 ppm
78-59-1	3,5,5-trimethylcyclohex-2-enone	200 ppm
621-64-7	nitrosodipropylamine	95 mg/m ³
62-75-9	dimethylnitrosoamine	10 mg/m ³
86-30-6	nitrosodiphenylamine	360 mg/m ³
98-95-3	nitrobenzene	200 ppm
110-86-1	PYRIDINE	3600* ppm
120-82-1	1,2,4-trichlorobenzene	20 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

75-09-2 dichloromethane

PEL	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
REL	See Pocket Guide App. A
TLV	Long-term value: 174 mg/m ³ , 50 ppm
BEI	

106-46-7 1,4-dichlorobenzene

PEL	Long-term value: 450 mg/m ³ , 75 ppm
REL	See Pocket Guide App. A

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TLV	Long-term value: 60 mg/m ³ , 10 ppm
111-44-4 bis(2-chloroethyl) ether	
PEL	Ceiling limit value: 90 mg/m ³ , 15 ppm Skin
REL	Short-term value: 60 mg/m ³ , 10 ppm Long-term value: 30 mg/m ³ , 5 ppm Skin; See Pocket Guide App. A
TLV	Short-term value: 58 mg/m ³ , 10 ppm Long-term value: 29 mg/m ³ , 5 ppm Skin
117-81-7 bis(2-ethylhexyl) phthalate	
PEL	Long-term value: 5 mg/m ³
REL	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ See Pocket Guide App. A
TLV	Long-term value: 5 mg/m ³
84-74-2 dibutyl phthalate	
PEL	Long-term value: 5 mg/m ³
REL	Long-term value: 5 mg/m ³
TLV	Long-term value: 5 mg/m ³
118-74-1 hexachlorobenzene	
TLV	Long-term value: 0.002 mg/m ³ Skin
87-68-3 hexachlorobuta-1,3-diene	
REL	Long-term value: 0.24 mg/m ³ , 0.02 ppm Skin; See Pocket Guide App. A
TLV	Long-term value: 0.21 mg/m ³ , 0.02 ppm Skin
67-72-1 hexachloroethane	
PEL	Long-term value: 10 mg/m ³ , 1 ppm Skin
REL	Long-term value: 10 mg/m ³ , 1 ppm Skin; See Pocket Guide Apps. A and C
TLV	Long-term value: 9.7 mg/m ³ , 1 ppm Skin
78-59-1 3,5,5-trimethylcyclohex-2-enone	
PEL	Long-term value: 140 mg/m ³ , 25 ppm
REL	Long-term value: 23 mg/m ³ , 4 ppm
TLV	Ceiling limit value: 28 mg/m ³ , 5 ppm
62-75-9 dimethylnitrosoamine	
PEL	see 29 CFR 1910.1003
REL	See Pocket Guide App. A
TLV	Skin; L
98-95-3 nitrobenzene	
PEL	Long-term value: 5 mg/m ³ , 1 ppm Skin
REL	Long-term value: 5 mg/m ³ , 1 ppm Skin
TLV	Long-term value: 5 mg/m ³ , 1 ppm Skin; BEIm
120-82-1 1,2,4-trichlorobenzene	
REL	Ceiling limit value: 40 mg/m ³ , 5 ppm
TLV	Ceiling limit value: 37 mg/m ³ , 5 ppm
Ingredients with biological limit values:	
75-09-2 dichloromethane	
BEI	0.3 mg/L Medium: urine Time: end of shift Parameter: Dichloromethane (semi-quantitative)

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Product Name: Base/Neutrals Mix 1

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98-95-3 nitrobenzene

BEI 5 mg/g creatinine
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: Total p-nitrophenol (nonspecific)

1.5 % of hemoglobin
 Medium: blood
 Time: end of shift
 Parameter: Methemoglobin (background, nonspecific, semi-quantitative)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing.
 Wash hands before breaks and at the end of work.
 Store protective clothing separately.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form: Liquid
Color: According to product specification

· **Odor:** Characteristic

· **Odour Threshold:** Not applicable.

· **pH-value:** Not applicable.

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 40 °C (104 °F)

· **Flash point:** < 0 °C (<32 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 605 °C (1,121 °F)

· **Decomposition temperature:** Not applicable.

· **Auto igniting:** Product is not selfigniting.

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Product Name: Base/Neutrals Mix I

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· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	13 Vol %
Upper:	22 Vol %
· Vapor pressure at 20 °C (68 °F):	453 hPa (339.8 mm Hg)
· Density	Not applicable.
· Relative density	Not applicable.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water):	Not applicable.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	94.8 %
VOC content:	0.80 %
Solids content:	1.6 %
· Other information	No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
75-09-2 dichloromethane		
Oral	LD50	1,600 mg/kg (rat)
Inhalative	LC50/4 h	88 mg/l (rat)
95-50-1 1,2-dichlorobenzene		
Oral	LD50	500 mg/kg (rat)
106-46-7 1,4-dichlorobenzene		
Oral	LD50	500 mg/kg (rat)
121-14-2 2,4-dinitrotoluene		
Oral	LD50	268 mg/kg (rat)
606-20-2 2,6-dinitrotoluene		
Oral	LD50	177 mg/kg (rat)
103-33-3 azobenzene		
Oral	LD50	1,000 mg/kg (rat)
111-44-4 bis(2-chloroethyl) ether		
Oral	LD50	75 mg/kg (rat)
Dermal	LD50	90 mg/kg (rabbit)
Inhalative	LC50/4 h	0.33 mg/l (rat)
85-68-7 BBP		
Oral	LD50	2,330 mg/kg (rat)

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77-47-4 hexachlorocyclopentadiene		
Oral	LD50	1,300 mg/kg (rat)
Dermal	LD50	430 mg/kg (rabbit)
120-82-1 1,2,4-trichlorobenzene		
Oral	LD50	756 mg/kg (rat)

- **Primary irritant effect:**

- **on the eye:** No irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

Product is suspected to cause damage to fertility.

Product is suspected to cause birth defects.

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
75-09-2	dichloromethane	2A
95-50-1	1,2-dichlorobenzene	3
541-73-1	1,3-dichlorobenzene	3
106-46-7	1,4-dichlorobenzene	2B
121-14-2	2,4-dinitrotoluene	2B
606-20-2	2,6-dinitrotoluene	2B
103-33-3	azobenzene	3
111-44-4	bis(2-chloroethyl) ether	3
108-60-1	bis(2-chloro-1-methylethyl) ether	3
117-81-7	bis(2-ethylhexyl) phthalate	2B
85-68-7	BBP	3
86-74-8	carbazole	2B
118-74-1	hexachlorobenzene	2B
87-68-3	hexachlorobuta-1,3-diene	3
67-72-1	hexachloroethane	2B
621-64-7	nitrosodipropylamine	2B
62-75-9	dimethylnitrosoamine	2A
86-30-6	nitrosodiphenylamine	3
98-95-3	nitrobenzene	2B
110-86-1	PYRIDINE	3

- **NTP (National Toxicology Program)**

75-09-2	dichloromethane	R
106-46-7	1,4-dichlorobenzene	R
117-81-7	bis(2-ethylhexyl) phthalate	R
118-74-1	hexachlorobenzene	R
67-72-1	hexachloroethane	R
621-64-7	nitrosodipropylamine	R
62-75-9	dimethylnitrosoamine	R
98-95-3	nitrobenzene	R

- **OSHA-Ca (Occupational Safety & Health Administration)**

75-09-2	dichloromethane
62-75-9	dimethylnitrosoamine

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

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- **Additional ecological information:**
- **General notes:**
Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**

· **PBT:**

87-68-3	hexachlorobuta-1,3-diene
120-82-1	1,2,4-trichlorobenzene

· **vPvB:**

87-68-3	hexachlorobuta-1,3-diene
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- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· **UN-Number**· **DOT, ADR, IMDG, IATA**

UN1593

· **UN proper shipping name**· **DOT**

Dichloromethane

· **ADR**

1593 Dichloromethane

· **IMDG, IATA**

DICHLOROMETHANE

· **Transport hazard class(es)**· **DOT**· **Class**

6.1 Toxic substances

· **Label**

6.1

· **ADR, IMDG, IATA**· **Class**

6.1 Toxic substances

· **Label**

6.1

· **Packing group**· **DOT, ADR, IMDG, IATA**

III

· **Environmental hazards:**

Not applicable.

· **Special precautions for user**

Warning: Toxic substances

· **Danger code (Kemler):**

60

· **EMS Number:**

F-A,S-A

· **Segregation groups**

Liquid halogenated hydrocarbons

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC****Code**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

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- **IMDG**
- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":**

UN 1593 DICHLOROMETHANE, 6.1, III

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 313 (Specific toxic chemical listings):**

75-09-2	dichloromethane
95-50-1	1,2-dichlorobenzene
541-73-1	1,3-dichlorobenzene
106-46-7	1,4-dichlorobenzene
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene
111-91-1	bis(2-chloroethoxy)methane
111-44-4	bis(2-chloroethyl) ether
108-60-1	bis(2-chloro-1-methylethyl) ether
117-81-7	bis(2-ethylhexyl) phthalate
84-74-2	dibutyl phthalate
131-11-3	dimethyl phthalate
118-74-1	hexachlorobenzene
87-68-3	hexachlorobuta-1,3-diene
77-47-4	hexachlorocyclopentadiene
67-72-1	hexachloroethane
621-64-7	nitrosodipropylamine
62-75-9	dimethylnitrosoamine
86-30-6	nitrosodiphenylamine
98-95-3	nitrobenzene
110-86-1	PYRIDINE
120-82-1	1,2,4-trichlorobenzene

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **TSCA new (21st Century Act) (Substances not listed)**

101-55-3	4-Bromodiphenyl ether
103-33-3	azobenzene
86-74-8	carbazole
87-68-3	hexachlorobuta-1,3-diene
621-64-7	nitrosodipropylamine
62-75-9	dimethylnitrosoamine

· **Proposition 65**

· **Chemicals known to cause cancer:**

75-09-2	dichloromethane
106-46-7	1,4-dichlorobenzene
121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene
103-33-3	azobenzene
111-44-4	bis(2-chloroethyl) ether
108-60-1	bis(2-chloro-1-methylethyl) ether
117-81-7	bis(2-ethylhexyl) phthalate
86-74-8	carbazole
118-74-1	hexachlorobenzene

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87-68-3	hexachlorobuta-1,3-diene
67-72-1	hexachloroethane
621-64-7	nitrosodipropylamine
62-75-9	dimethylnitrosoamine
86-30-6	nitrosodiphenylamine
98-95-3	nitrobenzene
110-86-1	PYRIDINE

· Chemicals known to cause reproductive toxicity for females:

84-74-2	dibutyl phthalate
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· Chemicals known to cause reproductive toxicity for males:

121-14-2	2,4-dinitrotoluene
606-20-2	2,6-dinitrotoluene
117-81-7	bis(2-ethylhexyl) phthalate
84-74-2	dibutyl phthalate
98-95-3	nitrobenzene

· Chemicals known to cause developmental toxicity:

117-81-7	bis(2-ethylhexyl) phthalate
85-68-7	BBP
84-74-2	dibutyl phthalate
118-74-1	hexachlorobenzene

· Carcinogenic categories**· EPA (Environmental Protection Agency)**

75-09-2	dichloromethane	L
95-50-1	1,2-dichlorobenzene	D
541-73-1	1,3-dichlorobenzene	D
101-55-3	4-Bromodiphenyl ether	D
103-33-3	azobenzene	B2
111-91-1	bis(2-chloroethoxy)methane	D
111-44-4	bis(2-chloroethyl) ether	B2
117-81-7	bis(2-ethylhexyl) phthalate	B2
85-68-7	BBP	C
84-74-2	dibutyl phthalate	D
84-66-2	diethyl phthalate	D
131-11-3	dimethyl phthalate	D
118-74-1	hexachlorobenzene	B2
87-68-3	hexachlorobuta-1,3-diene	C
77-47-4	hexachlorocyclopentadiene	E, NL
67-72-1	hexachloroethane	L
78-59-1	3,5,5-trimethylcyclohex-2-enone	C
621-64-7	nitrosodipropylamine	B2
62-75-9	dimethylnitrosoamine	B2
86-30-6	nitrosodiphenylamine	B2
98-95-3	nitrobenzene	L
120-82-1	1,2,4-trichlorobenzene	D

· TLV (Threshold Limit Value established by ACGIH)

75-09-2	dichloromethane	A3
95-50-1	1,2-dichlorobenzene	A4
106-46-7	1,4-dichlorobenzene	A3
111-44-4	bis(2-chloroethyl) ether	A4
117-81-7	bis(2-ethylhexyl) phthalate	A3
84-66-2	diethyl phthalate	A4
118-74-1	hexachlorobenzene	A3
87-68-3	hexachlorobuta-1,3-diene	A3
77-47-4	hexachlorocyclopentadiene	A4
67-72-1	hexachloroethane	A3

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78-59-1	3,5,5-trimethylcyclohex-2-enone	A3
62-75-9	dimethylnitrosoamine	A3
98-95-3	nitrobenzene	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
75-09-2	dichloromethane	
106-46-7	1,4-dichlorobenzene	
121-14-2	2,4-dinitrotoluene	
111-44-4	bis(2-chloroethyl) ether	
117-81-7	bis(2-ethylhexyl) phthalate	
87-68-3	hexachlorobuta-1,3-diene	
67-72-1	hexachloroethane	
62-75-9	dimethylnitrosoamine	

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



· **Signal word** Danger

· **Hazard-determining components of labeling:**

dichloromethane
nitrobenzene
bis(2-chloroethyl) ether
dimethylnitrosoamine
4-Bromodiphenyl ether

· **Hazard statements**

H225 Highly flammable liquid and vapor.
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H350 May cause cancer.
H360 May damage fertility or the unborn child.

· **Precautionary statements**

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Avoid breathing dust/fume/gas/mist/vapors/spray
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

· **Additional classification according to Decree on Hazardous Materials:** Carcinogenic hazardous material group III (dangerous).

· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** product safety department

· **Contact:**

SPEX CertiPrep, LLC.
1-732-549-7144

· **Date of preparation / last revision** 11/30/2018 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists

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EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEL: Biological Exposure Limit
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 1B: Carcinogenicity – Category 1B
Repr. 1A: Reproductive toxicity – Category 1A

US